



Co/c

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 6,959,301)	Serial No. 09/876,993
)	
Inventor(s): David ROZENSHTEN <i>et al</i>)	Filed: June 11, 2001
)	
Issue Date: October 25, 2005)	Attorney Docket No. 003433.00025

For: MAINTAINING AND RECONSTRUCTING THE HISTORY OF DATABASE CONTENT
MODIFIED BY A SERIES OF EVENTS

REQUEST FOR CERTIFICATE OF CORRECTION

U.S. Patent and Trademark Office
Customer Service Window
Randolph Building, Mail Stop: Certificate of Correction Branch
401 Dulany Street
Alexandria, VA 22314

Certificate
MAR 21 2006
of Correction

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one page.


The mistakes identified in the appended Form occurred through no fault of the Applicants, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience is the relevant portion of the Amendment filed May 23, 2005.

Issuance of the Certificate of Correction containing the corrections is respectfully requested. Since these changes are necessitated through no fault of the Applicants, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: March 17, 2006

By: 
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MAR 21 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: 6,959,301
DATED: October 25, 2005
INVENTOR(S): David ROZENSHTEN *et al*

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 13, Claim 6, After Line 41:

Please insert the following:

--(2) performing a plurality of loads to the database, wherein the load comprises a load table and the database comprises a target table, and wherein the database table rows are correlated via a primary key; and

- (3) undoing at least one of said plurality of loads,
wherein performing a load in step (2) comprises the steps of:
- i. inserting rows into the target with new key values;
 - ii. updating rows in the target table with existing key values; and
 - iii. deleting rows from the target table when a row's key value does not exist in the load table,

wherein the resulting content of the database reflects the data as if the undone load had not been performed, and--

In Column 14, Claim 11, Lines 31-36:

Please remove the following:

"wherein, subsequent to step (3), the resulting content of the database reflects the data as if the undone load had not been performed and, subsequent to step (4), the resulting content of the database reflects the data as if the one of said plurality of loads has been performed."

Mailing Address of Sender:

Banner & Witcoff, Ltd.
11th Floor
1001 G Street, N.W.
Washington, DC 20001-4597

FORM PTO 1050 (Rev.2-93)

U.S. PAT. NO 6,959,301

No. of add'l copies
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□

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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DATED: October 25, 2005
INVENTOR(S): David ROZENSHTEN *et al*

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- (3) undoing at least one of said plurality of loads,
wherein performing a load in step (2) comprises the steps of:
- i. inserting rows into the target with new key values;
 - ii. updating rows in the target table with existing key values; and
 - iii. deleting rows from the target table when a row's key value does not exist in the load table,

wherein the resulting content of the database reflects the data as if the undone load had not been performed, and--

In Column 14, Claim 11, Lines 31-36:

Please remove the following:

"wherein, subsequent to step (3), the resulting content of the database reflects the data as if the undone load had not been performed and, subsequent to step (4), the resulting content of the database reflects the data as if the one of said plurality of loads has been performed."

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U.S. PAT. NO 6,959,301

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108 21 2006 □

Appln. No.: 09/876,993
Reply to Office Action of February 23, 2005



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

David ROZENSHTEN *et al.*

Serial No.: **09/876,993**

Filed: June 11, 2001

For: MAINTAINING AND
RECONSTRUCTING THE HISTORY
OF DATABASE CONTENT
MODIFIED BY A SERIES OF
EVENTS

Atty. Docket No.: 003433.00025

Group Art Unit: 2177

Examiner: Black, Linh

Confirmation No.: 1837

AMENDMENT

U.S. Patent and Trademark Office
Customer Service Window, Mail Stop Non-Fee Amendment
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

In response to the Office Action mailed February 23, 2005, please amend the instant application as follows:

Amendments to the Claims are reflected in the Listing of Claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 9 of this paper.

If any fees are required or if an overpayment is made, the Commissioner is authorized to debit or credit our Deposit Account No. 19-0733, accordingly.

The method of claim 6, wherein during step (2) i., when inserting a row with a primary key which at some point in the past was deleted prior to said load, those columns for which the load does not contain data are set to the values that they had when the row was last deleted.

Claim 8. (Canceled)

Claim 9. (Canceled)

Claim 10. (Canceled)

Claim 11. (Canceled)

Claim 12. (Canceled)

Claim 13. (Canceled)

Claim 14. (Canceled)

Claim 15. (Canceled)

Claim 16. (Canceled)

~~Claim 17~~ (Currently Amended) A system for undoing changes made to the content of at least one database, comprising:

a processor; and

a memory;

wherein in the memory is stored a database and computer readable instructions such that when the computer readable instructions are executed by the processor the system is adapted to perform the steps of:

(1) storing data in a database;

(2) performing a plurality of loads to the database, wherein the load comprises a load
table and the database comprises a target table, and wherein the database table
rows and the load table rows are correlated via a primary key; and
(3) undoing at least one of said plurality of loads,
wherein performing a load in step (2) comprises the steps of:
i. inserting rows into the target with new key values;
ii. updating rows in the target table with existing key values; and
iii. deleting rows from the target table when a row's key value does not exist in the
load table,
wherein the resulting content of the database reflects the data as if the undone load had
not been performed, and

The system of claim 16, wherein during step (2) i., when inserting a row with a primary key which at some point in the past was deleted prior to said load, those columns for which the load does not contain data are set to the values that they had when the row was last deleted.

Claim 18. (Canceled)

Claim 19. (Canceled)

Claim 20. (Canceled)

Claim 21. (Canceled)

Claim 22. (Canceled)

Claim 23. (Canceled)

Claim 24. (Canceled)

Claim 25. (Canceled)

Claim 26. (Canceled)

Claim 27.1 (Currently Amended) A computer readable medium storing computer readable instructions that, when executed by a processing unit, cause a data processing device to undo changes made to the content of at least one database by performing the steps of:

- (1) storing data in a database;
- (2) performing a plurality of loads to said database, wherein the load data comprises a load table and the database comprises a target table, and wherein the database table rows and the load table rows are correlated via a primary key; and
- (3) undoing at least one of said plurality of loads;

wherein the resulting content of the database reflects the data as if the undone load had not been performed, and

wherein performing a load in step (2) comprises the steps of:

- i. inserting rows into the target with new key values;
- ii. updating rows in the target table with existing key values; and
- iii. deleting rows from the target table when a row's key value does not exist in the load table,

The computer readable medium of claim 26, wherein during step (2) i., when inserting a row with a primary key which at some point in the past was deleted prior to said load, those columns for which the load does not contain data are set to the values that they had when the row was last deleted.

Claim 28. (Canceled)

Claim 29. (Canceled)

Claim 30. (Canceled)

Claim 31. (Currently Amended) The method of claim 1, further comprising the step of:

- (4) reconstructing a load sequence of said database as it existed prior to step (3),